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STORAGE AREA USAGE OF ANDROID  
APPLICATION**(71) Applicant: **SAMSUNG ELECTRONICS CO.,  
LTD.**, Gyeonggi-do (KR)(72) Inventors: **Sung Hwan LEE**, Bellevue, WA (US);  
**Minseok CHOI**, Issaquah, WA (US);  
**Moonhyun JUNG**, Issaquah, WA (US)(73) Assignee: **SAMSUNG ELECTRONICS CO.,  
LTD.**, Gyeonggi-do (KR)(21) Appl. No.: **14/880,640**(22) Filed: **Oct. 12, 2015****Publication Classification**(51) **Int. Cl.**  
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CPC . **G06F 8/61** (2013.01); **G06F 8/65** (2013.01)(57) **ABSTRACT**

A mobile device based on an Android™ operating system configure to reduce the size of downloaded Android™ application packages. The mobile device comprises a storage device configured to store data, transceiver circuitry for downloading an Android™ application package, and a package manager. The package manager analyzes resources in the downloaded Android™ application package; identifies unnecessary resources that are not suitable for use by the mobile device; deletes the unnecessary resources; generates from the remaining resources an optimized Android™ application package having a smaller size than the downloaded Android™ application package; and stores the optimized Android™ application package in the storage device under the same name as the downloaded Android™ application package. The package manager also identifies an original security certificate in the downloaded Android™ application package; and generates from the optimized Android™ application package a new security certificate. The package manager uses the original security certificate and the new security certificate to download an updated version of the Android™ application package.

